

Docket No. 249124US0CONT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Satoshi NIIYAMA, et al.

SERIAL NO: New Application

FILED: Herewith

FOR: LIQUID CRYSTAL OPTICAL ELEMENT AND METHOD FOR ITS PRODUCTION

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97**

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

**REFERENCES**

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references were filed in prior application Serial No.: 09/807,425, where required, as were either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**RELATED CASES**

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**CERTIFICATION**

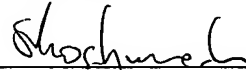
- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

**DEPOSIT ACCOUNT**

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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|--|--------------------|---|----------|---|-----------------------|--|--|
| Form PTO 1449<br>(Modified)  |                    | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE  |          | ATTY DOCKET NO.<br><b>249124US0CONT</b>     |                       | SERIAL NO.<br><b>New Application</b>                             |  |
| LIST OF REFERENCES CITED BY APPLICANT  |                    |   |          | APPLICANT<br><b>Satoshi NIIYAMA, et al.</b> |                       |  |  |
|  |                    |   |          | FILING DATE<br><b>February 19, 2004</b>     |                       | GROUP  |  |
| <b>U.S. PATENT DOCUMENTS</b>   |                    |   |          |   |                       |  |  |
| EXAMINER<br>INITIAL  | DOCUMENT<br>NUMBER | DATE  | NAME     | CLASS                                       | SUB<br>CLASS          | FILING DATE<br>IF APPROPRIATE                                    |  |
|  | AA                 | 5,691,795   | 11/25/97 | DOANE, et al.                               |                       |  |  |
|  | AB                 | 5,188,760   | 02/23/93 | HIKMET, et al.                              |                       |  |  |
|  | AC                 | 5,686,017   | 11/1997  | KOBAYASHI, et al.                           |                       |  |  |
|  | AD                 | 6,128,056   | 10/2000  | KUBOTA, et al.                              |                       |  |  |
|  | AE                 | 6,576,303   | 06/2003  | TAMURA, et al.                              |                       |  |  |
|  | AF                 | 5,674,576   | 10/07/97 | T. GOTOH, et al.                            |                       |  |  |
|  | AG                 | 6,018,378   | 01/25/00 | HIRAI, et al.                               |                       |  |  |
|  | AH                 | 5,216,531   | 06/01/93 | HIRAI, et al.                               |                       |  |  |
|  | AI                 | 5,103,327   | 04/07/92 | HIRAI, et al.                               |                       |  |  |
|  | AJ                 | 6,171,518   | 01/2001  | HIKMET, et al.                              |                       |  |  |
|  | AK                 | 5,863,457   | 01/1999  | HASEBE, et al.                              |                       |  |  |
|  | AL                 |   |          |   |                       |  |  |
|  | AM                 |   |          |   |                       |  |  |
|  | AN                 |   |          |   |                       |  |  |
| <b>FOREIGN PATENT DOCUMENTS</b>  |                    |   |          |   |                       |  |  |
|  |                    | DOCUMENT<br>NUMBER  | DATE     | COUNTRY                                     | TRANSLATION<br>YES NO |  |  |
|  | AO                 | WO 94/8268  | 04/14/94 | WIPO  |                       |  |  |
|  | AP                 | WO 93/22397   | 11/11/93 | WIPO  |                       |  |  |
|  | AQ                 | 2-89023   | 03/29/90 | JAPAN                                       |                       |  |  |
|  | AR                 | 1-272551  | 10/31/89 | JAPAN                                       |                       |  |  |
|  | AS                 | 0 562 681   | 09/1993  | EUROPE                                      |                       |  |  |
|  | AT                 |   |          |   |                       |  |  |
|  | AU                 |   |          |   |                       |  |  |
|  | AV                 |   |          |   |                       |  |  |
| <b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b>   |                    |   |          |   |                       |  |  |
|  | AW                 | Hikmet, R.A.M., "Anisotropic Gels Obtained by Photopolymerization in the Liquid Crystal State", <i>Liquid Crystals in Complex Geometries, Formed by Polymer and Porous Networks</i> , Taylor & Francis, 1798, Pages 53-82         |          |   |                       |  |  |
|  | AX                 | Hikmet, R.A.M., "Electrically Induced Light Scattering from Anisotropic Gels with Negative Dielectric Anisotropy", <i>Mol. Cryst. Liq. Cryst.</i> , 1992, Pages 117-131.  |          |   |                       |  |  |
|  | AY                 | Litt, Morton H., et al., "Crosslinked Liquid Crystal Polymers from Liquid Crystal Monomers: Synthesis and Mechanical Properties", <i>Journal of Polymer Sciences, Part A: Polymer Chemistry</i> , Volume 31, 1993, Pages 183-191. |          |   |                       |  |  |
|  | AZ                 |   |          |   |                       | <input type="checkbox"/> Additional References sheet(s) attached |  |
| Examiner   |                    |   |          |   | Date Considered       |  |  |
| *Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                    |   |          |   |                       |  |  |